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on

Attorney Docket No. BSYS-003/01US  
(020107-2007)

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of John Thomas Dolloff

Examiner: Gregory M. Desire

Serial No: 10/038,644

Art Unit: 2627

Filed: January 8, 2002

Confirmation No.: 9154

For: **REPLACEMENT SENSOR MODEL FOR OPTIMAL IMAGE EXPLOITATION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO RESTRICTION REQUIREMENT**

Sir:

In the above Office Action, Restriction to one of the following inventions was required under 35 U.S.C. § 121:

Group I: Claims 1-16 and 23, adjustment models; and

Group II: Claims 17-22 and 24-28, drawn to target tracking.

In support of the restriction requirement the Examiner has stated that the inventions of Group II and Group I are related as combination and subcombination, respectively. Specifically, the Examiner has asserted that the combination as claimed does not require the particulars of the subcombination as claimed because the broadest subcombination, i.e., claim 23, recites data describing physical characteristics of the image sensor, which is not recited by the broadest combination claim, i.e., claim 28.

In response to the above restriction requirement and the Examiner's perceived need for two groups of claims, Applicant provisionally elects, pursuant to 37 CFR 1.143, to prosecute the claims of Group I (i.e., claims 1-16 and 23), with traverse.

Applicant requests that the Examiner reconsider the proposed grouping of the claims and rejoin at least certain of the claims of Group II with the claims of Group I. Although the Examiner has justified the case for restriction of the pending claims by focusing upon the differences between the claims of Group I and claim 28 of Group II, Applicant observes that claim 24 (and claims 25-27 dependent thereon) are indistinct for purposes of restriction from the claims of Group I. For example, both claim 23 of Group I and claim 24 include recitations directed to an adjustment vector, an error covariance matrix, and a ground-to-image transformation function applicable to an image sensor.

All of the foregoing suggests that a thorough search relating to the claims of Group I will necessarily also encompass at least claims 24-27 of Group II. In addition, the similar context of the claims in Group I and Group II enables the claims of these Groups to be efficiently examined concurrently. Accordingly, Applicant respectfully suggests that it would not be unduly burdensome for the Examiner to rejoin at least claims 24-27 of Group II with the claims of Group I for purposes of search and examination.

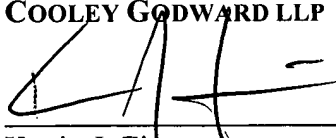
Applicant respectfully requests consideration of the remarks herein prior to further examination of the above-identified application. The undersigned would of course be available to discuss the present application with the Examiner if, in the opinion of the Examiner, such a discussion could lead to resolution of any outstanding issues.

Dated: November 18, 2005

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Respectfully submitted,  
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By:

  
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